

FOUNDATION SEMINAR IN INFECTIOUS DISEASES

Foundation Seminar in Infectious Diseases

Preliminary program

Self-paced learning package: from Friday 6 May 2022

Topic and presenter	Learning objectives
Principles of infectious diseases <i>Dr Natasha Holmes</i> , Infectious Diseases and Antibiotic Allergy Physician, Austin Health, Melbourne, Vic	<ul style="list-style-type: none">• Describe the Physician's approach to clinical assessment including clinical investigations commonly undertaken• Discuss principles of good antimicrobial prescribing• Discuss the clinical monitoring required for patients on antimicrobial treatment and the clinical approach to antimicrobial failure
Principles of microbiology <i>Dr Shelanah Fernando</i> , Infectious Diseases Staff Specialist and Microbiologist, Concord Hospital, Sydney, NSW	<ul style="list-style-type: none">• Discuss the role of the microbiology laboratory in the management of infectious diseases, antimicrobial prescribing and infection control• Interpret a typical laboratory report• Discuss important Gram-positive and Gram-negative organisms in hospital
Principles of Antimicrobial Stewardship <i>Chin-Yen Yeo</i> , Senior Pharmacist (Antimicrobial Stewardship), Concord Hospital, Antimicrobial Resistance Commission, International Pharmaceutical Federation (FIP)	<ul style="list-style-type: none">• Discuss principles of antimicrobial stewardship (AMS)• Identify IV to oral switch criteria• List examples of AMS interventions that can be applied in daily practice
Introduction to PK/PD <i>Gene Chai</i> , PhD candidate, University of Queensland, Brisbane, Qld	<ul style="list-style-type: none">• Describe the major pharmacokinetic (PK) and pharmacodynamic (PD) parameters of commonly used antimicrobials• Apply PK/PD principles in order to optimize antimicrobial dosing and minimize toxicity in an individual patient
Therapeutic drug monitoring in practice <i>Cindy Lau</i> , Antimicrobial Stewardship Pharmacist, St Vincent's Hospital Sydney, Sydney, NSW	<ul style="list-style-type: none">• Identify the practical issues surrounding TDM of antimicrobials, including the role for pharmacists

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<p>Management of respiratory infections</p> <p><i>Dr Pam Konecny</i>, Senior Staff Specialist Infectious Diseases, St George Hospital, Sydney, NSW</p>	<ul style="list-style-type: none"> • Describe the signs, symptoms, pathophysiology and principles of management of community acquired pneumonia (CAP) and hospital acquired pneumonia (HAP) • Identify risk factors for HAP caused by multi-drug resistant gram-negative organisms • Compare tools available for the assessment of severity of CAP, e.g. PSI, SMART-COP, CORB • Describe the appropriate antimicrobial management for treatment and prophylaxis of influenza
<p>Sepsis</p> <p><i>Professor Karin Thursky</i>, Associate Director Health Services Research and Implementation Science, Peter MacCallum Cancer Centre, Melbourne, Vic; Director, National Centre for Antimicrobial Stewardship, Melbourne, Vic</p> <p><i>Dr Courtney Ierano</i>, Infectious Diseases Advanced Training Resident, Alfred Health, Melbourne, Vic; PhD Fellow, National Centre for Antimicrobial Stewardship (NCAS), Melbourne, Vic</p>	<ul style="list-style-type: none"> • Explain the definitions of sepsis and recognize the key clinical signs of sepsis • Describe the key principles in the management of sepsis including empirical antimicrobial therapy and fluids and monitoring requirements • Identify common sources of sepsis and high risk populations • Recognise the benefits of implementing a hospital sepsis pathway
<p>Management of urinary tract infections</p> <p><i>Matthew Rawlins</i>, Senior Pharmacist, Antimicrobial Stewardship, Fiona Stanley Hospital, Perth, WA</p>	<ul style="list-style-type: none"> • Describe the signs, symptoms, pathophysiology and principles of management of uncomplicated and complicated urinary tract infections (UTIs) • Describe empiric treatment including dose and duration of therapy based on local and national guidelines • Identify risk factors for UTIs caused by multi-drug resistant gram-negative organisms • Discuss the role of prophylaxis for prevention of UTIs
<p>Skin and soft tissue infections</p> <p><i>Amy Legg</i>, Antimicrobial Stewardship Pharmacist, Top End Health Service, Darwin, NT, and PhD candidate, Menzies School of Health Research, Darwin, NT</p>	<ul style="list-style-type: none"> • Describe the underlying risk factors and pathophysiology and evidence-based empiric management of cellulitis • Describe the management of skin and soft tissue infections (SSTIs) in the following specialty populations: intravenous drug users, diabetic patients, wounds with water exposure • Discuss the management of recurrent staphylococcal infection, including decolonization • Describe the rationale and principles for the route of administration, timing and duration for surgical antimicrobial prophylaxis

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Live virtual seminar: Saturday 18 June 2022

Time (AEST)	Session
0920-0930	Online login and registration available
0930-0940	Welcome and introductions
0940-1030	Review of online learning content and Q&A Dr Courtney Ierano, Infectious Diseases Advanced Training Resident, Alfred Health, Melbourne, Vic; PhD Fellow, National Centre for Antimicrobial Stewardship (NCAS), Melbourne, Vic
1030-1130	Case session 1: Vancomycin and therapeutic drug monitoring Tony Lai, Senior Pharmacist-Antimicrobial Stewardship, The Children's Hospital at Westmead, Honorary clinical lecturer, University of Sydney, NSW Tutors: Courtney Ierano, William Franks, Chin-Yen Yeo, Brigid Carey, Jackson Crawn, Caitlin Wallace
1130-1200	Break
1200-1315	Case session 2: Respiratory / sepsis infections Led by Brigid Casey, Senior Project Officer, Australian Commission on Safety and Quality in Health Care Tutors: Courtney Ierano, Tony Lai, William Franks, Chin-Yen Yeo, Jackson Crawn, Caitlin Wallace
1315-1415	Case session 3: Skin and soft tissue infections Led by William Franks, MNHHS AMS Pharmacist, Royal Brisbane and Women's Hospital, Qld Tutors: Courtney Ierano, Tony Lai, Chin-Yen Yeo, Brigid Carey, Jackson Crawn, Caitlin Wallace
1415-1445	Break
1445-1600	Case session 4: Urinary tract infections Led by Jackson Crawn, Specialist Pharmacist - Infectious Diseases, Royal Hobart Hospital, Tas Tutors: Courtney Ierano, Tony Lai, William Franks, Chin-Yen Yeo, Brigid Carey, Caitlin Wallace
1600-1630	Final Q&A, seminar summary and close
1630	Seminar close